VMware vCenter Operations Management Suite, VMware vCloud Networking and Security, and VMware vCloud Suite provide for enhanced management in both virtualization environments and the cloud

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At a glance

VMware vCenter Operations Management Suite: A solution that provides automated operations management using patented analytics and an integrated approach to performance, capacity planning, and configuration management.

VMware vCloud Networking and Security: A software-defined networking and security solution that enhances operational efficiency, promotes agility, and enables extensibility to rapidly respond to business needs.

VMware vCloud Suite: An integrated solution that delivers a comprehensive cloud offering in three editions. Infrastructure services are pooled together to meet IT's most critical needs, with built-in operations management and security to complete the solution.

Overview

VMware vCenter Operations Management Suite: This offering provides automated operations management using patented analytics and an integrated approach to performance, capacity planning, and configuration management. The vCenter Operations Management Suite enables IT organizations to get better visibility and actionable intelligence to proactively ensure service levels, optimum resource usage, and configuration compliance in dynamic virtual and cloud environments. There are four suites available with increasing richness of functionality (Standard, Advanced, Enterprise, and Enterprise Plus). Key benefits are:

- Higher quality of service, fewer incidents, and less downtime of infrastructure and application services.
- Increased productivity and collaboration from better visibility across the entire environment.
- Potential for infrastructure cost savings and better resource utilization from capacity optimizations. Fewer tools are need to monitor the environment.
- Support for continuous compliance with IT policies and regulatory requirements.

VMware vCloud Networking and Security: This software-defined networking and security solution enhances operational efficiency, unlocks agility, and enables extensibility to rapidly respond to business needs. It provides a broad range of

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services in a single solution, including virtual firewall, VPN, load balancing, and VXLAN extended networks. Key benefits include the ability to:

- Lower cost and complexity with a virtualized networking and security solution
- Scale and move virtual workloads without physical network or security constraints or the need for specialized appliances
- Enable integration of third-party network and security solutions through open architecture and standard APIs
- Streamline operations through VMware vCenter and VMware vCloud Director integration

VMware vCloud Suite: This integrated solution delivers a comprehensive cloud offering in three editions. Infrastructure services are pooled together to meet IT's most critical needs, with built-in operations management and security to complete the solution. Each edition includes vSphere Enterprise Plus 5.1, vCloud Director, vCloud Connector, and vCloud Networking and Security.

The richer editions incorporate vCenter Operations Management Suite content, vCloud Automation Center, vCenter Site Recovery Manager, and vFabric Director. These packages incorporate key features in a single purchase with a simplified per-processor licensing metric.

- vCloud Suite Standard: The Standard edition delivers software-defined datacenter features providing infrastructure as a service capability.
- vCloud Suite Advanced: The Advanced edition adds advanced vCloud networking and security and vCenter Operations Management Advanced Suite for performance monitoring and alerting with capacity planning, reporting, and optimization.
- vCloud Suite Enterprise: The Enterprise edition builds out a complete cloud infrastructure as a service with rapid application provisioning. This edition enables control and accountability with configuration and chargeback management. It delivers availability SLAs and provides for on-demand provisioning of multi-tier applications. This edition incorporates all of the features mentioned in the previous editions plus vCenter Site Recovery Manager, vCenter Operations Management Enterprise Suite, vCloud Automation Center, and vFabric Application Director.

Key prerequisites

IBM® VMware products must be purchased together with a corresponding IBM hardware product.

Planned availability date

November 30, 2012

Description

VMware vCenter Operations Management Suite: This offering provides automated operations management using patented analytics and an integrated approach to performance, capacity planning, and configuration management. The vCenter Operations Management Suite enables IT organizations to get better visibility and actionable intelligence to proactively ensure service levels, optimum resource usage, and configuration compliance in dynamic virtual and cloud environments. There are four suites available with increasing richness of functionality (Standard, Advanced, Enterprise, and Enterprise Plus).

Key benefits are:

- Higher quality of service, fewer incidents, and less downtime of infrastructure and application services.
- Increased productivity and collaboration from better visibility across the entire environment.
- Potential for infrastructure cost savings and better resource utilization from capacity optimizations. Fewer tools are need to monitor the environment.
- Support for continuous compliance with IT policies and regulatory requirements.

New key features of VMware vCenter Operations Management Suite editions:

- Operations Management Dashboard provides comprehensive views into health, risk, and efficiency scores of your cloud infrastructure. Quickly drill down to see what is causing current workload conditions, pinpoint potential problems in the future, and identify areas with inefficient use of resources.
- Correlation of Performance and Change Events inside the guest operating system enables administrators to quickly understand and remediate performance issues arising from configuration changes.
- Compliance Checking of vSphere Hosts allows administrators to maintain a compliant infrastructure and automate the hardening of vSphere hosts with prebuilt security and compliance guidelines.
- Smart Alerts provide proactive notifications of building health, performance, and capacity issues in the environment. Automated root cause analysis identifies the offending metric across all layers of the infrastructure.
- Capacity Planning, Reporting, and Optimization views help administrators optimize VM density by identifying areas of reclaimable waste and chronic capacity shortfalls. Configurable alerts notify of changing capacity conditions in production and nonproduction areas.
- Integrated Cost Metering and Reporting capabilities provide visibility into the financial value of consumed resources and enable administrators to optimize provisioned capacity for lowest cost without sacrificing performance.
- Discovery and Visualization of Application and Infrastructure Dependencies bring application-level awareness to infrastructure and operations teams to ensure service levels and disaster recovery protection for all critical application services. Application components and version numbers are named automatically and updated continuously.

vCenter Operations Management Suite

	Small and midsize		Enterprise	
	Standard	Advanced	Enterprise	Enterprise Plus
Scope				
Small vSphere environments	X			
Large vSphere environments		X		
Virtual and cloud infrastructure			X	
Cloud and heterogeneous environments				X
vCenter Components				
Operations Manager	X (performance only)	X	X	X
Infrastructure Navigator			X	X
Chargeback Manager			X	X
Configuration Manager			X (vSphere hosts only)	X
Key features and capabilities				
Operations Dashboard	X	X	X	X
Proactive Smart Alerts	X	X	X	X
Customizable Dashboards			X	X
Performance Management				
Self-learning Performance Analytics	X	X	X	X
Dynamic Thresholds	X	X	X	X
Extensible to 3rd party data sources			X	X
3rd party adapters included				X

Capacity Management				
Capacity Metering	X	X	X	X
Trending Dashboards		X	X	X
Scenarios and Modeling		X	X	X
Alerting and Reporting		X	X	X
Configuration and Compliance				
vSphere change event correlation	X	X	X	X
Compliance for vSphere hosts			X	X
In-guest change event correlation				X
Compliance for VM and guest OS				X
Remediation and Rollback				X
Application Dependency Mapping				
Automated Discovery			X	X
Naming and Versioning			X	X
Relationship Visualization			X	X
Cost Metering and Reporting				
Fixed and variable cost models			X	X
Cost visibility for business teams			X	X
Cost analysis and reporting			X	X

VMware vCloud Networking and Security: This software-defined networking and security solution enhances operational efficiency, promotes agility, and is extensible to rapidly respond to business needs. It provides a broad range of services in a single solution, including virtual firewall, VPN, load balancing, and VXLAN extended networks. Management integration with VMware vCenter and vCloud Director reduces the cost and complexity of datacenter operations and promotes the operational efficiency and agility of virtual datacenters and private cloud deployments. This offering:

- Lowers cost and complexity with a virtualized networking and security solution
- Efficiently manages compute resources across cluster and subnet boundaries
- Scales and moves virtual workloads without physical network or security constraints or the need for specialized appliances
- Enables integration of third-party network and security solutions through open architecture and standard APIs
- Streamlines operations through vCenter and vCloud Director integration
- Provides scalable networking and security while simplifying compliance

Key features of vCloud Networking and Security:

- Edge: Provides a rich set of integrated networking and security gateway services for protecting virtual datacenters and optimizing resource utilization. This virtual appliance includes services such as firewall, network address translation (NAT), load balancing, and VPN. Edge High Availability protects against network, host, and software failures.
- App Firewall: Protects and isolates critical applications with security applied immediately to surround a virtual machine. vCenter integration streamlines management and improves operational efficiency.
- VXLAN: Enables technology for network virtualization, providing network abstraction, elasticity, and scale across the datacenter. VXLAN provides an architecture for scaling your applications across clusters and pods without any physical network reconfiguration.
- Management and Reporting: Through seamless integration with VMware vCenter Server and vCloud Director, provides a central point of control for deploying, managing, reporting, logging, and integrating security and gateway services. Role-based access control enables separation of duties and compliance.
- vCloud Ecosystem Framework: Integrates partner services at either the virtual network interface card (vNIC) or virtual edge through REST APIs.

VMware vCloud Suite: This integrated solution delivers a comprehensive cloud offering in three editions. Infrastructure services are pooled together to meet IT's most critical needs, with built-in operations management and security to complete the solution. Each edition includes vSphere Enterprise Plus 5.1, vCloud

Director, vCloud Connector, and vCloud Networking and Security. The richer editions incorporate vCenter Operations Management Suite content, vCenter Site Recovery Manager, vCloud Automation Center, and vFabric Director. These packages incorporate key features in a single purchase with a simplified per-processor licensing metric. Key features of VMware vCloud Suite:

Virtualization:

- VMware vSphere 5.1: Implement virtualized infrastructure with policy-based automation.
- vSphere ESXi: Take advantage of a robust, production-proven, high-performance virtualization layer.
- vSphere vMotion and Storage vMotion: Eliminate application downtime from planned server maintenance by migrating running virtual machines between hosts and with proactive and nondisruptive storage migration.
- vSphere Distributed Switch: Centralize network provisioning, administration, and monitoring using datacenter-wide network aggregation.
- vSphere DRS, Storage DRS, Storage I/O Control, Network I/O Control vSphere DRS: Automatically load-balance across hosts and storage, and define priority access to network and storage resources.
- vSphere High Availability, Fault Tolerance, Data Protection, and Replication: Increase availability of applications, storage resources, infrastructure, and management.
- vShield Zones and vShield Endpoint: Secure vSphere with application-aware firewall and AV functions offloaded to a hardened security virtual machine.
- vSphere Host Profiles and Auto Deploy: Automation for rapid deployment and patching of vSphere hosts and fast setup of new hosts.

Cloud Infrastructure:

- VMware vCloud Director: Virtual datacenters for consumption within minutes
- VMware vCloud Connector: Public cloud extensibility

Provision software-defined datacenter services as complete virtual datacenters that are ready for consumption in a matter of minutes.

- Elastic virtual datacenters: Eliminate compute, storage, and networking silos to ensure highest hardware utilization, and allocate resources to tenant organizations using pooling across multiple vSphere clusters.
- Service catalog: Deploy multi-tier applications as preconfigured virtual appliances with virtual machines, operating system images, and other media with the click of a button from service catalogs.
- Multi-tenancy: Create a secure multi-tenant environment with multiple organizations sharing the same infrastructure, thus leading to economies of scale.
- Fast provisioning: Reap significant storage savings via VMware's unique Linked Clone technology that lets end users rapidly clone base vApps into children vApps by storing only the changes made by children and reading all other data from the base.
- Public cloud extensibility: Seamlessly leverage external capacity of public clouds.

VMware vCloud Networking and Security:

Provides a broad range of services in a single solution, including virtual firewall, VPN, load balancing, and VXLAN extended networks.

- Edge provides a rich set of integrated networking and security gateway services for protecting the perimeter of virtual datacenters. The Edge virtual appliance provides effective firewalling as well as integrated gateway services such as NAT, load balancer, VPN, and DHCP. Edge High Availability protects against network, host, and software failures.
- App Firewall segments and isolates critical applications within the virtual datacenter using virtual network interface card (vNIC) level firewalling. It enables

you to create logical and elastic trust zones that are protected from network-based threats.
- VXLAN is the enabling technology for network virtualization, providing network abstraction, elasticity, and scale across the datacenter. VXLAN provides an architecture for scaling your applications across clusters and pods without any physical network reconfiguration.
- Data Security scans virtual workloads for sensitive data such as credit card information and reports violations of regulations (such as PCI-DSS), enabling IT organizations to quickly assess the state of compliance with regulations from around the world.
- Management and Reporting capabilities are enabled through seamless integration with VMware vCenter Server and VMware vCloud Director.

VMware vCenter Site Recovery Manager:

Ensure simple and reliable disaster protection for all virtualized applications, leveraging cost-efficient vSphere Replication or storage-based replication to:

- Replace traditional, error-prone manual runbooks with simple, automated recovery plans
- Enable frequent nondisruptive testing of recovery plans to ensure that they meet business requirements
- Automate site recovery and migration processes to ensure fast, reliable recovery
- Streamline planned migrations and preventive failovers

Management:

VMware vCenter Operations Management Suite:

Ensure service levels, optimum resource usage, and configuration compliance in dynamic virtual and cloud environments through integrated performance, capacity, and configuration management.

- Operations management dashboard and proactive alerts: Obtain comprehensive visibility into the health, risk, and efficiency of your cloud infrastructure.
- Automated root cause analysis of performance problems.
- Correlation of performance and change events: Quickly understand and remediate performance issues arising from configuration changes.
- Capacity planning, reporting, and optimization: Identify areas of reclaimable waste and chronic capacity shortfalls and optimize VM density.
- Continuous compliance: Detect, remediate, and enforce configuration standards to maintain a compliant infrastructure.
- Discovery and visualization of application and infrastructure dependencies.
- Integrated cost metering and reporting: Create visibility into resource utilization and the financial value of consumed resources.

VMware vFabric Application Director:

Automate the configuration and deployment of multi-tier applications across private and public cloud infrastructures.

- Application blueprints: Blueprints offer an intuitive drag and-drop canvas for quickly creating visual blueprints of application deployment topologies.
- Standardized OS and middleware templates: A customizable catalog, prepopulated with standard application components and scripts, allows easy reuse when constructing new application topologies.
- Flexible cloud deployments: Blueprints can be reused on multiple virtual and private/public cloud infrastructures.
- Deployment profiles: Profiles govern settings such as cloud templates, networks, and application configuration values allowed for use in specific deployment environments.

- Automatically generated deployment execution plans: Quality and compliance reviews are performed before deployments are executed for regulated applications.
- Native integration with VMware vCloud Director: Automate the deployment of virtual infrastructure alongside application deployment.
- Pre-instrumented application performance management.

VMware vCloud Automation Center:

Enables customized, self-service provisioning and lifecycle management of cloud services that comply with established business policies. It provides a secure portal where authorized administrators, developers, or business users can request new IT services as well as manage existing computer resources from predefined user-specific menus.

Business-aware governance and control allows IT administrators to apply their own way of doing business to the cloud without changing organizational processes or policies. Enterprises gain the flexibility needed for business units to have different service levels, policies, and automation processes, as appropriate for their needs.

- Gain business agility and operational efficiency with a policy-based approach to automating the governance and delivery of infrastructure and desktop services.
- Accelerate the deployment of business relevant cloud services across multi-vendor virtual and physical infrastructures in private and public clouds.
- Leverage vCloud Director environments to benefit from policy-based virtual datacenters built on pooled infrastructure resources and software-define networking, security, storage and availability services.
- Quickly demonstrate the value of a cloud infrastructure deployment to secure organizational buy-in and management commitment.

Detailed breakdown of each vCloud Suite Edition:

	Standard	Advanced	Enterprise
Cloud Management			
vCloud Automation Center			
- Provisioning and management of IT services in vSphere environments			X
vFabric Application Director			
- Automated configuration and deployment of multi-tier cloud applications			X
vCenter Operations Management Suite			
- Application Monitoring OS, middleware, databases		X	X
- Configuration Compliance vSphere host & VM change and configuration		X	X
- Performance & Capacity Optimization analytics, dashboards and alerting		X	X
- Application Awareness discovery and dependency mapping		X	X
- Chargeback metered utilization reporting and accountability		X	X
Cloud Infrastructure			
vCenter Site Recovery Manager			
- Automated disaster recovery planning, testing, and execution			X
vCloud Networking and Security			
- Advanced continuous availability, firewall and network		X	X
- Software defined networking, security, and ecosystem integration	X	X	X
vCloud Director & vCloud Connector Advanced Edition			

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- Virtualized datacenters with
  multi-tenancy and public cloud
  extensibility                          X          X        X
vSphere
- Virtualized infrastructure with
  policy-based automation                X          X        X
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Note: vCloud Suite Editions are licensed per CPU.

Product positioning

- VMware vSphere Essentials: Provides an all-in-one solution for small offices to consolidate and manage many application workloads while reducing hardware and operating costs with a low up-front investment.
- VMware vSphere Essentials Plus: Adds high application availability and data protection for a complete server consolidation and business continuity solution for the small office IT environment.
- VMware vSphere Standard: Offers basic consolidation of applications to slash hardware costs while accelerating application deployment.
- VMware vSphere Enterprise: Minimizes downtime, protects data, and automates resource management.
- VMware vSphere Enterprise Plus: Delivers the benefits of VMware vSphere and transforms your IT infrastructure into the next generation of flexible, reliable IT services.
- VMware vCenter Product Family: Helps deliver the highest SLAs across the IT infrastructure with VMware vCenter virtualization management products. These products can help you achieve the efficiency and agility your datacenter needs to power your organization's business-critical applications. They support greater operational efficiency and policy-driven control while managing IT service levels across a dynamic virtual infrastructure. The vCenter family helps you deliver dramatically simplified and more effective IT management.
- VMware View for Desktop Virtualization: Delivers rich, personalized virtual desktops as a managed service from a virtualization platform built to deliver the entire desktop, not just applications.
- VMware vCloud Suite: Provides a complete integrated cloud infrastructure that simplifies the deployment and management of the cloud.

Product number

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Software Options:

Part
number   Description

00Y9930  VMware vCtr Operations 5.6 Mgmt Suite Std (25 VM Pack),
           Lic&1Yr Subs
00Y9931  VMware vCloud Suite 5 Standard, License and 1 Yr Subs
00Y9932  VMware vCloud Suite 5 Advanced, License and 1 Yr Subs
00Y9933  VMware vCloud Suite 5 Enterprise, License and 1 Yr Subs
00Y9934  VMware vCloud Networking & Security Std (25 VM Pack),
           Lic& 1 Yr Subs
00Y9935  VMware vCloud Networking & Security Adv (25 VM Pack),
           Lic& 1 Yr Subs
00Y9936  VMware vSphere 5 Standard w/Operations Management,
           Lic and 1 Yr Subs
00Y9937  VMware vSph 5 Std w/Operations Mgmt Acc Kit - 6 procs,
           Lic&1Yr Subs
00Y9938  Upg: VMware vSph 5 Std to vSph 5 Std w/Ops Mgmt-1 Proc,
           Lic&1Yr Subs
00Y9939  Upg: VMware vSphere 5 Std to vCloud Suite 5 Std,
           Lic & 1 Yr Subs
00Y9940  Upg: VMware vSphere 5 Std to vCloud Suite 5 Adv,
           Lic & 1 Yr Subs
00Y9941  Upg: VMware vSphere 5 Std to vCloud Suite 5 Ent,
           Lic & 1 Yr Subs
00Y9942  Upg: VMware vSphere 5 Ent to vCloud Suite 5 Std,
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          Lic & 1 Yr Subs
00Y9943   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Adv,
          Lic & 1 Yr Subs
00Y9944   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Ent,
          Lic & 1 Yr Subs
00Y9945   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Std,
          Lic & 1 Yr Subs
00Y9946   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Adv,
          Lic & 1 Yr Subs
00Y9947   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Ent,
          Lic & 1 Yr Subs
00Y9948   VMware vCtr Operations 5.6 Mgmt Suite Std (25 VM Pack),
          Lic&3Yr Subs
00Y9949   VMware vCloud Suite 5 Standard, License and 3 Yr Subs
00Y9950   VMware vCloud Suite 5 Advanced, License and 3 Yr Subs
00Y9951   VMware vCloud Suite 5 Enterprise, License and 3 Yr Subs
00Y9952   VMware vCloud Networking & Security Std (25 VM Pack),
          Lic& 3 Yr Subs
00Y9953   VMware vCloud Networking & Security Adv (25 VM Pack),
          Lic& 3 Yr Subs
00Y9954   VMware vSphere 5 Standard w/Operations Management,
          Lic and 3 Yr Subs
00Y9955   VMware vSph 5 Std w/Operations Mgmt Acc Kit - 6 procs,
          Lic&3Yr Subs
00Y9956   Upg: VMware vSph 5 Std to vSph 5 Std w/Ops Mgmt-1 Proc,
          Lic&3Yr Subs
00Y9957   Upg: VMware vSphere 5 Std to vCloud Suite 5 Std,
          Lic & 3 Yr Subs
00Y9958   Upg: VMware vSphere 5 Std to vCloud Suite 5 Adv,
          Lic & 3 Yr Subs
00Y9959   Upg: VMware vSphere 5 Std to vCloud Suite 5 Ent,
          Lic & 3 Yr Subs
00Y9960   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Std,
          Lic & 3 Yr Subs
00Y9961   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Adv,
          Lic & 3 Yr Subs
00Y9962   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Ent,
          Lic & 3 Yr Subs
00Y9963   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Std,
          Lic & 3 Yr Subs
00Y9964   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Adv,
          Lic & 3 Yr Subs
00Y9965   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Ent,
          Lic & 3 Yr Subs
00Y9966   VMware vCtr Operations 5.6 Mgmt Suite Std (25 VM Pack),
          Lic&5Yr Subs
00Y9967   VMware vCloud Suite 5 Standard, License and 5 Yr Subs
00Y9968   VMware vCloud Suite 5 Advanced, License and 5 Yr Subs
00Y9969   VMware vCloud Suite 5 Enterprise, License and 5 Yr Subs
00Y9970   VMware vCloud Networking & Security Std (25 VM Pack),
          Lic& 5 Yr Subs
00Y9971   VMware vCloud Networking & Security Adv (25 VM Pack),
          Lic& 5 Yr Subs
00Y9972   VMware vSphere 5 Standard w/Operations Management,
          Lic and 5 Yr Subs
00Y9973   VMware vSph 5 Std w/Operations Mgmt Acc Kit - 6 procs,
          Lic&5Yr Subs
00Y9974   Upg: VMware vSph 5 Std to vSph 5 Std w/Ops Mgmt-1 Proc,
          Lic&5Yr Subs
00Y9975   Upg: VMware vSphere 5 Std to vCloud Suite 5 Std,
          Lic & 5 Yr Subs
00Y9976   Upg: VMware vSphere 5 Std to vCloud Suite 5 Adv,
          Lic & 5 Yr Subs
00Y9977   Upg: VMware vSphere 5 Std to vCloud Suite 5 Ent,
          Lic & 5 Yr Subs
00Y9978   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Std,
          Lic & 5 Yr Subs
00Y9979   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Adv,
          Lic & 5 Yr Subs
00Y9980   Upg: VMware vSphere 5 Ent to vCloud Suite 5 Ent,
          Lic & 5 Yr Subs
00Y9981   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Std,
          Lic & 5 Yr Subs
00Y9982   Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Adv,
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          Lic & 5 Yr Subs
00Y9983  Upg: VMware vSphere 5 EntPlus to vCloud Suite 5 Ent,
          Lic & 5 Yr Subs
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Publications

No publications or CD-ROMs are shipped with these programs.

IBM Publications Center

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

http://www.ibm.com/shop/publications/order

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

http://www.ibm.com/services/

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

http://www.ibm.com/services/continuity

For details on education offerings related to specific products, visit

http://www.ibm.com/services/learning/index.html

Select your country, and then select the product as the category.

Technical information

Specified operating environment

Hardware requirements

Visit

http://www.vmware.com/products/server/esx_specs.html

http://www.vmware.com/products/vmanage/vc_specs.html

IBM System x® and BladeCenter® servers that are listed on the IBM ServerProven® Web site

http://www-03.ibm.com/servers/eserver/serverproven/compat/us/

Software requirements

To view the operating systems supported, visit

http://www.vmware.com/products/server/esx_specs.html

http://www.vmware.com/products/vmanage/vc_specs.html

For information on additional support, certification, version information, or network operating systems, visit

http://www-03.ibm.com/servers/eserver/serverproven/compat/us/

Compatibility

For detailed information about IBM and non-IBM devices, adapters, software, and network operating systems supported with xSeries® servers, visit

http://www-03.ibm.com/servers/eserver/serverproven/compat/us/

Contact your IBM representative or IBM Business Partner, or refer to the IBM *Sales Manual* for information on the compatibility of hardware and software for xSeries servers. The *Sales Manual* is updated periodically as new features and options are announced that support these servers.

Limitations

Refer to the Software requirements section for operating system limitations.

Planning information

Cable orders

Not applicable

Supplies

None

Security, auditability, and control

This product uses the security and auditability features of the system in which it is installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

http://www.ibm.com/support/electronic

Terms and conditions

Licensed programs: Yes.

Non-IBM programs are available from IBM as distributed by the program supplier. IBM makes no representations or warranties regarding third party products or services. Some software may differ from its retail version (if available) and may not include user manuals or all program functionality. Software license agreements may apply.

Remarketer terms and conditions

The announced products are available under the terms and conditions of the IBM Business Partner Agreement. These terms and conditions apply to IBM Business Partners who are approved for returns and price protection.

Returns policy: The announced products are not eligible for returns.

Price protection: The announced products are eligible for price protection.

For IBM features and options, IBM will pay price protection credits based on the lesser of:

- 45 days of net purchases (ships minus returns) from IBM (per IBM invoice dates) from the effective date of the price action, or
- Calculated net on-hand inventory the day prior to the effective date of the price action.

Remarketer reporting

In order to qualify for IBM price protection, Business Partners must accurately report their Sales and Inventory positions via EDI weekly (every 7 days). Price protection credits will be processed within 30 calendar days of the price decrease announcement date by IBM .

IBM will calculate applicable net (LIST) price protection credits for those Business Partners who receive price protection. The applicable price protection credits will be based on calculating a new discounted price off the new net (LIST) price based on the Business Partners appropriate discount. The new (LIST) discounted price will be subtracted from the old (LIST) discounted price. This new difference will be multiplied times the number of units calculated by IBM that receive price protection credits.

IBM Business Partners requiring additional information about EDI reporting capability may contact the IBM Electronic Commerce Team (1-800-426-7272, option #8, then option #2) . Business Partners are responsible for the accuracy of their reported sales and inventory positions.

Warranty service upgrades

IBM hourly service rate classification

Not applicable

Field-installable features

Yes

Model conversions

No

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Licensed Internal Code and Licensed Machine Code

These products do not contain Licensed Internal Code or Licensed Machine Code.

Pricing

For all local charges, contact your IBM representative.

IBM Global Financing

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